PowerRIP®

Version 3.1

Windows 3.11 Windows 95

Windows NT 3.51 (Intel)

for

EPSON Stylus Color
EPSON Stylus Pro
EPSON Stylus Pro XL

INSTALLATION & OPERATION MANUAL

Birmy

Birmy PowerRIP®

The Software Program That Turns Your Printer Into A True Adobe PostScript" Level 2 Imager

Adobe **PostScript**

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Installation

Birmy PowerRIP
Section 1

SYSTEM REQUIREMENTS

HARDWARE

Intel 486 or higher processor
8 MB Minimum of RAM for Windows and Windows 95, 24 MB minimum of RAM for Windows NT
(See section 4 for more on RAM.)
VGA or SVGA color monitor
Mouse
3.5" floppy drive
Hard drive with at least 40 MB free for letter size and 80 MB free for ledger size paper.
Keyboard
LPT printer output port

SOFTWARE

Windows 3.1 or higher, Windows 95, or Windows NT 3.51 or higher (Intel version)

NOTE: Before installation

A. Ensure that printer port (LPT) is installed and active.

B. Ensure that 40 MB free space is available on your hard drive before starting the installation of PowerRIP.

C. Set up the EPSON printer according to the documentation that came with it.

Operational Overview

The following is an explanation of how a page is processed by PowerRIP. The Windows Printer Drivers supply the printer with codes that are needed to image a page. PostScript is a coding method that is the standard for high quality graphic output. When using the PowerRIP Windows printer drivers, PostScript code is sent by Windows Applications, like PageMaker, to PowerRIP which processes it into a high resolution image and sends that image to the printer.

PowerRIP processes PostScript code and drives the EPSON Stylus series printer. Text, EPS, tiffs and applications files must be sent to PowerRIP through applications, like Pagemaker, using the PowerRIP PostScript Driver in Windows when printing.

How PowerRIP works

On Windows 3.11 and 95, Windows prints a file to the C:\BIRMY directory. PowerRIP scans this directory for files and processes the files into an image that is then sent out the LPT port to the printer.
PowerRIP must be minimized in order to scan.
On Windows NT, PowerRIP is set up so the Windows Print Manager creates a file in C:\BIRMY
instead of the LPT port. PowerRIP scans this directory for files to process. After processing, PowerRIP sends the bitmap image it created to the LPT port or LPT queue.
Note: If PowerRIP is not installed on the C drive then it will scan the drive letter you installed it on.

PANTONE

PANTONE professional color palette files are included in your PowerRIP package. These files can be read directly into commonly used applications so the user can have printer calibrated versions of all PANTONE Colors for the EPSON Stylus Pro and Pro XL models.

The file is a self-extracting zip file. Just copy it to any desired directory and type Epalete -d from the DOS prompt and it will extract itself and make its own subdirectories. Remember to use the -d after Epalete or the subdirectories will not extract correctly.

See the readme file on the PANTONE disk for use with your application. This is also a self-extracting 3MB file. Copy this to your hard disk and type **Readme** from the DOS prompt, then open the file it created called **PANTONE.WRI** with the Windows **Write** program.

PowerRIP Technical Support

For technical assistance with the installation, configuration and operation of Birmy PowerRIP, please call Birmy Customer Support at 407-723-2893. The hours of operation are 9am-8pm EST

Please do not call the Birmy Fulfillment Center for technical information. There are no support personnel at that location; the phone number is for the PowerRIP registration only.

When calling for technical assistance, be ready to identify your system and its configuration, the serial number of your copy of PowerRIP, and a description of the problems you are encountering. Please refer to the Troubleshooting Section for solutions before calling Technical Support.

Birmy Graphics:

Voice	407-723-2893
Fax	407-768-9669
Email	PowerRIP-Support @ Birmy.com

Mailing address Birmy Graphics Corporation
250 East Drive
Melbourne, Florida 32904

Installing the Software

Before installing PowerRIP, make backup copies of all the installation disks. There is no copy protection on the disks. **You will be required to register PowerRIP and obtain the unlock code for your copy PoweRIP after installation.**

If your system does not meet the minimum hardware and software requirements, PowerRIP will not work correctly.

PowerRIP Installer automatically loads the following

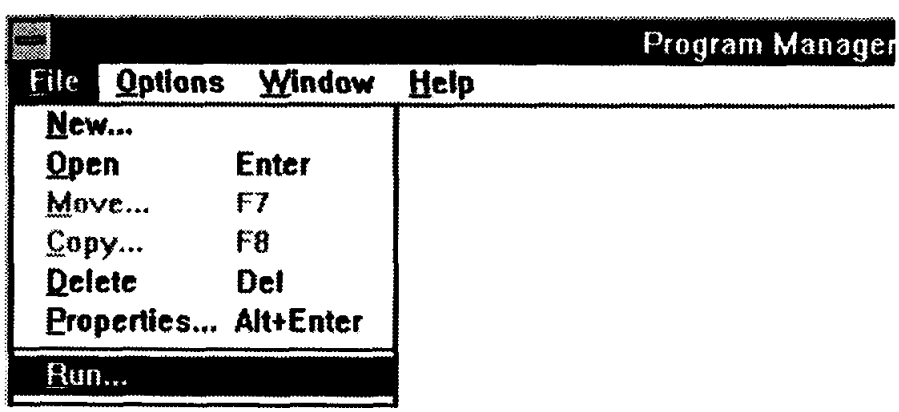
- 32 Bit (WIN32S) Windows libraries if not already loaded
- PowerRIP software

User manually installs

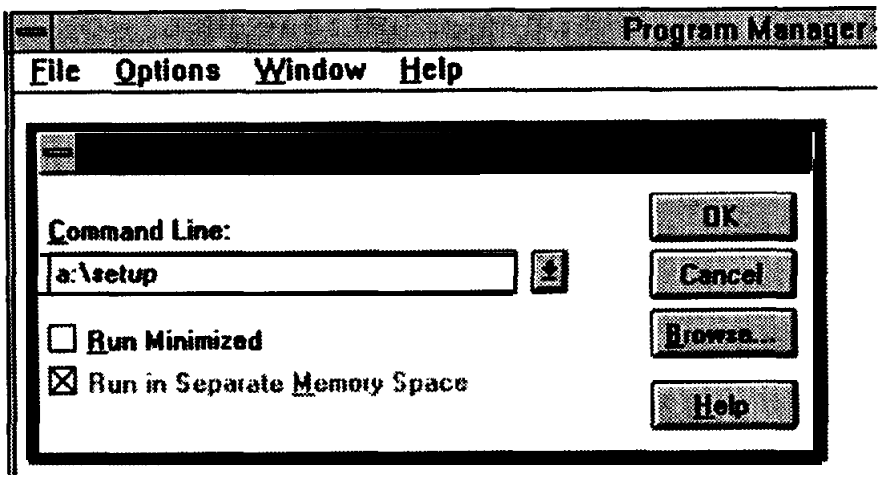
- PowerRIP Windows Printer Drivers

To install PowerRIP

1. Turn on the computer and start Windows.
2. Insert the floppy disk labeled PowerRIP Disk 1 into the floppy drive (either A or B).
3. From the Windows 3.11 Program Manager, select **File,** then **Run.** (For Windows 95 instructions see the note on the next page.)

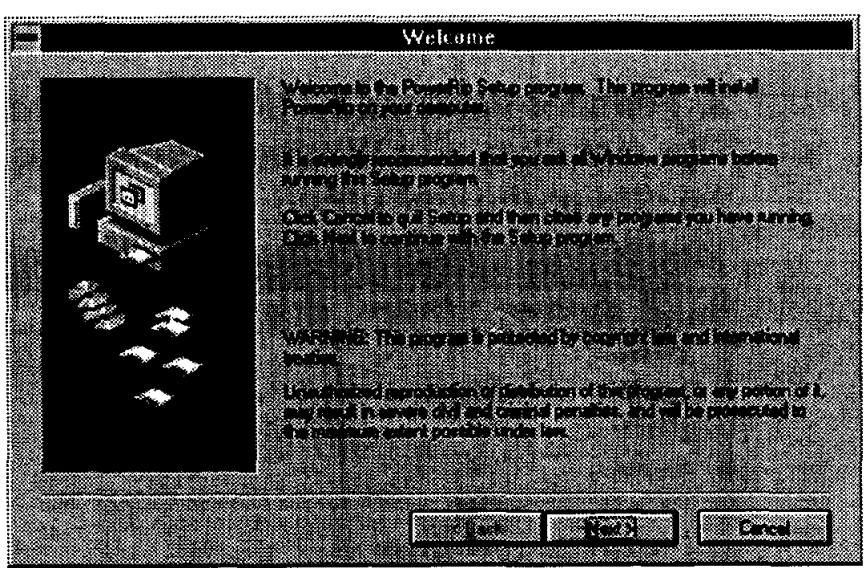


4. In the command line type **A:\SETUP** and click **OK.** (If you are loading from drive B type **B:\SETUP.)**



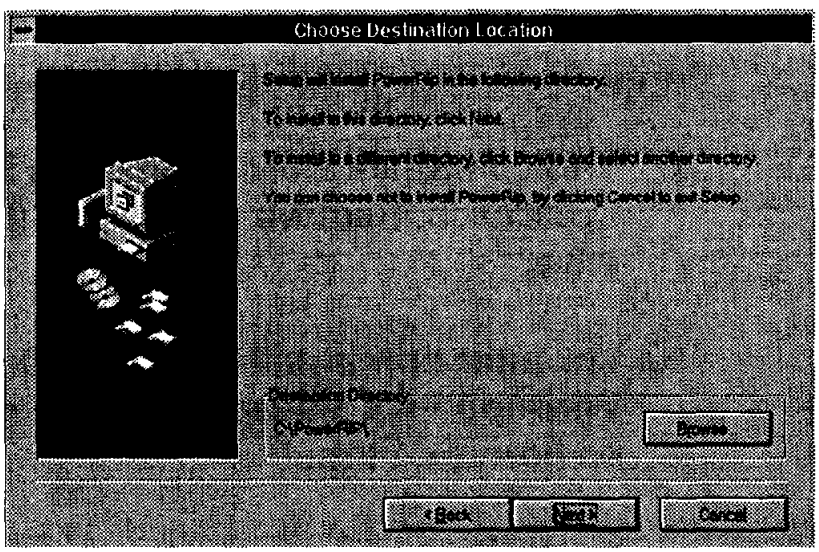
NOTE: If you are loading from Windows 95 click on **Start,** select **Run,** then type **A:\SETUP** (or **B:\SETUP);** or use the Add software option in Windows 95.

5. The PowerRIP program will now start to load and you see a Welcome screen. Click on **NEXT.**

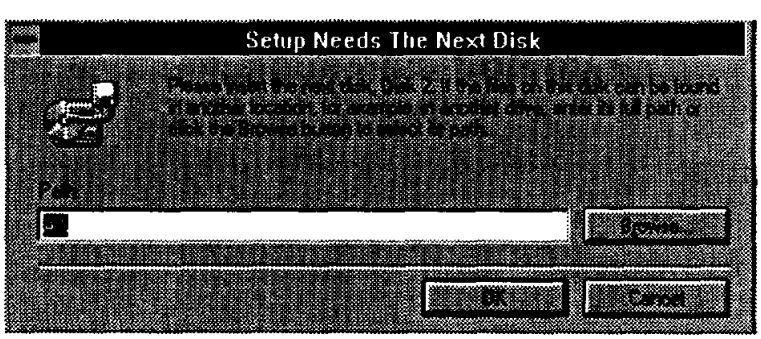


6. The program will then ask you to choose the drive and directory you want PowerRIP to be installed on. The default is C:\PowerRIP. You may leave the default directory or change it if desired and then click **NEXT.**

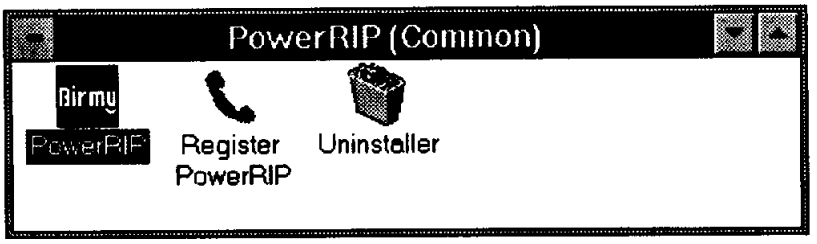
   Note: If you choose not to install PowerRIP at this time, click **CANCEL** to stop the installation.



7. The program continues installing, asking you for Disk 2, then Disk 3, and finally Disk 4. Click on **OK** after inserting each disk. (If you are not loading from the drive displayed, you need to enter a new path before selecting OK.)



8. When Disk 4 has loaded, the program will automatically create the group PowerRIP and PowerRIP icons for Windows. NOTE: If you are installing under Windows 3.11 the Uninstaller icon will not appear.



9. This completes the loading of the PowerRIP application. Remove Disk 4 from the floppy drive.

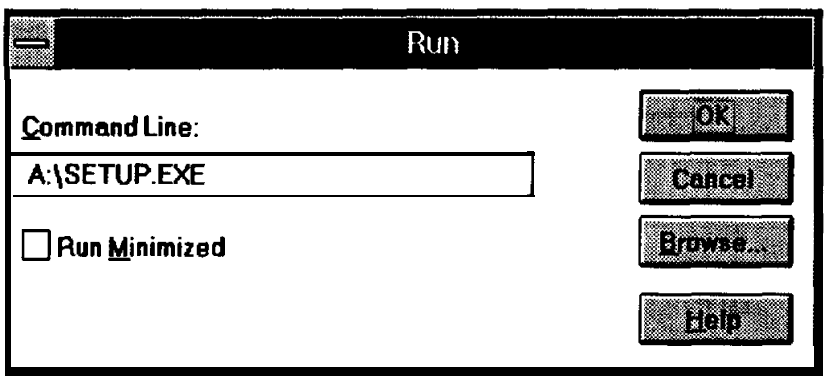
10. You must now install the Printer Driver using Windows Print Manager. See the next section on how to do this.

Note: PowerRIP needs your screen saver turned off. It may interfere with the print process. See your Windows Users Manual if you do not know how to do this.
PowerRIP runs from Windows and may not run from special desktops like Navigator. Click on the Windows icon in Navigator and then on PowerRIP.

PowerRIP Windows 3.11
Printer Driver Installation

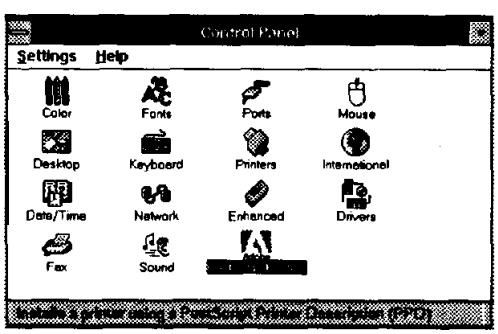
For Windows 95 or Windows NT see the appropriate section.

1. For Windows 3.11 put the PowerRIP Windows 3.11 Printers Drivers Disk into drive A or B. Then from Program Manager **go** to **File, Run,** then type **A:\Setup** or B if your drive is B.

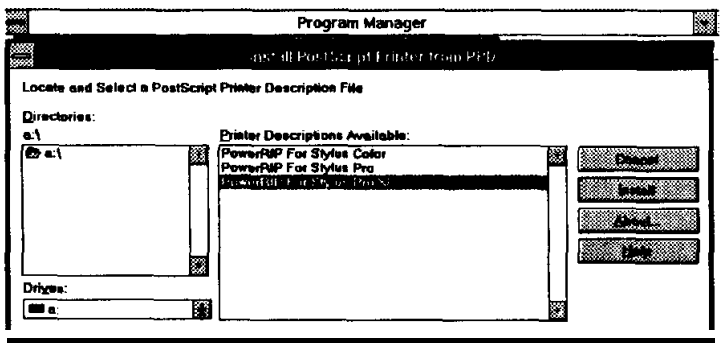


2. Click on **OK,** then the Adobe Printer Installer will ask if you would like to read the Read Me file. This file contains useful information about printing. You can print this Read Me file later. Select **Continue.** The Adobe Printer Installer will complete its installation and ask to have Windows restarted, Click on **Restart.**

3. When Windows restarts you should be at the Control Panel. Click on the Adobe Printers icon.

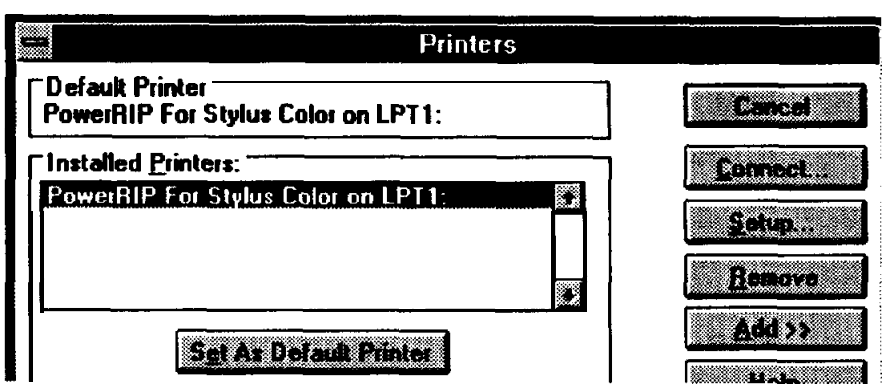


4. With the PowerRIP Windows 3.11 Drivers disk in drive A or B click on Drives and select that drive. Then select your EPSON printer and click on install.

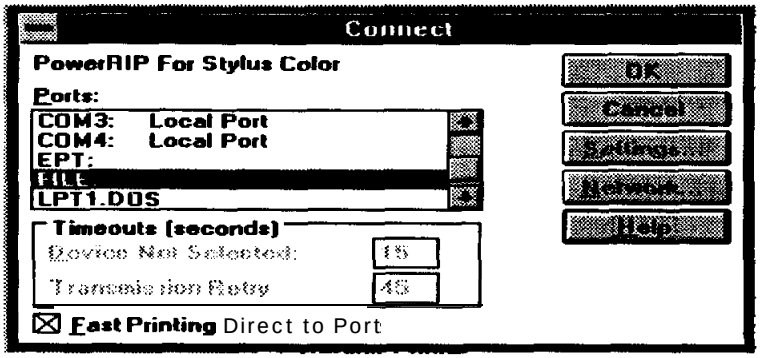


5. Your printer should successfully install. Now close and go to Control Panel and select Printers and select PowerRIP as your default printer.

6. Now select PowerRIP and click on **Connect.**

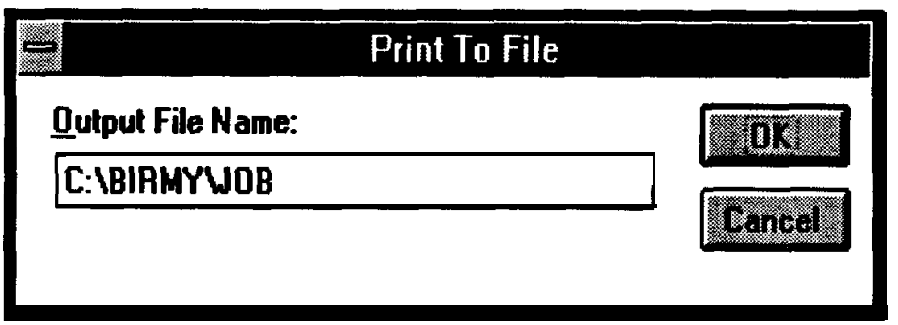


7. Select **FILE.**



8. Then select **OK.** The program installation is now complete. **PowerRIP must be registered before you can use it.** Go to the section **Registering your Software.**

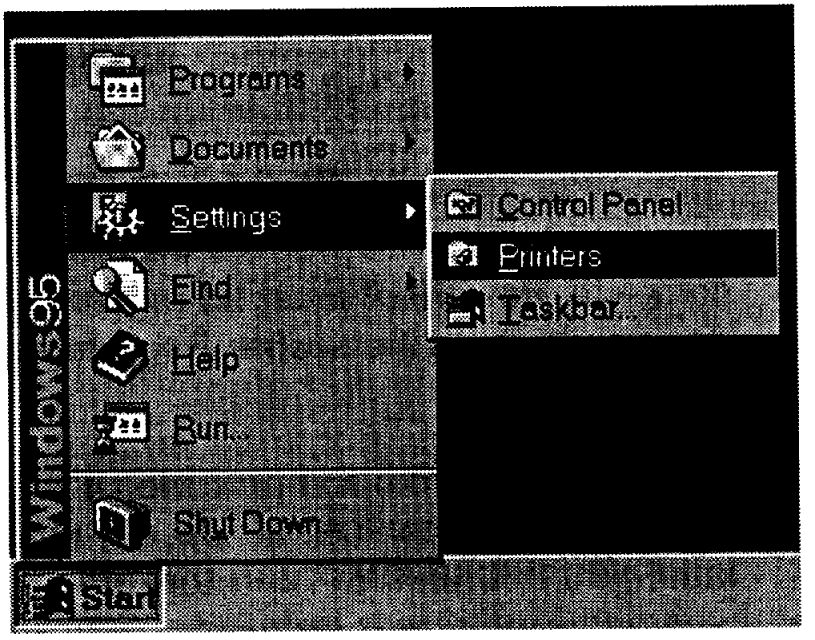
9. When you print from an application it will ask you for a file name. You can use almost any name but you must print to **C:\BIRMY** directory or the drive letter where PowerRIP was installed.



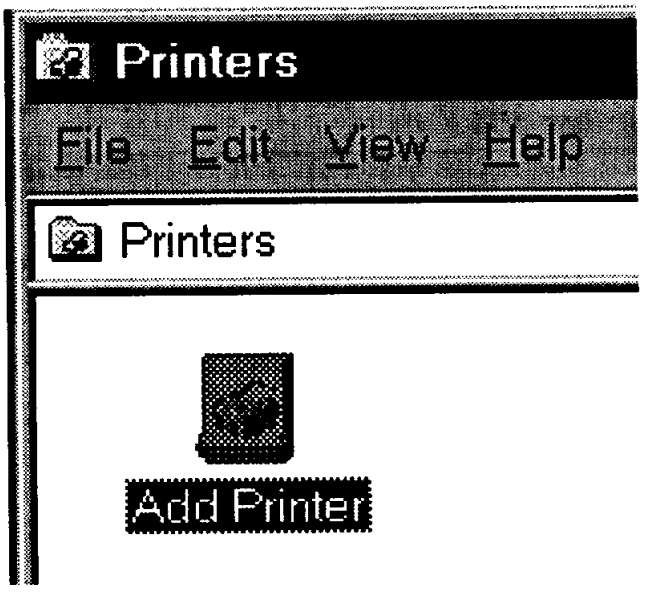
Note: When printing under Windows 3.11, PowerRIP does not return user operation until printing is finished.

PowerRIP Windows 95
Printer Driver Installation

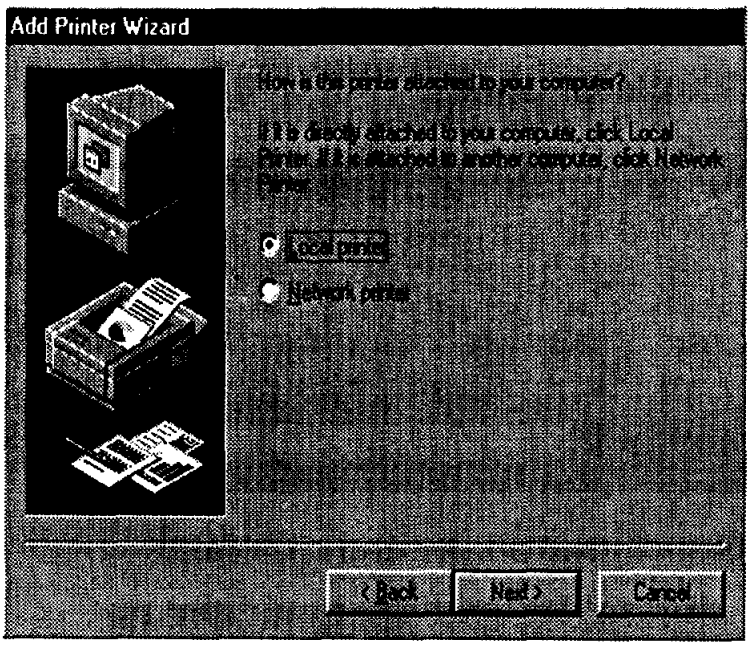
1. Click on **Start, Settings, Printers** section of Windows 95.



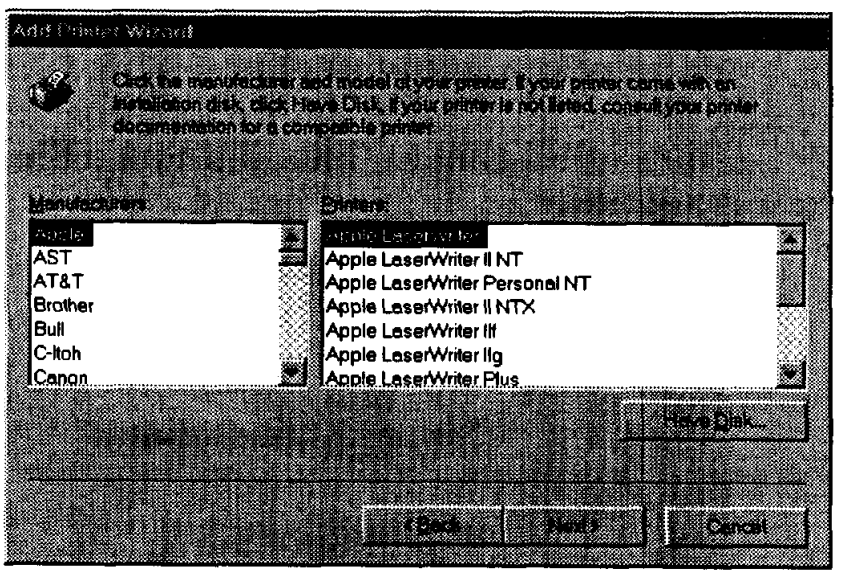
2. Click on **Add Printer,** then **Next.**



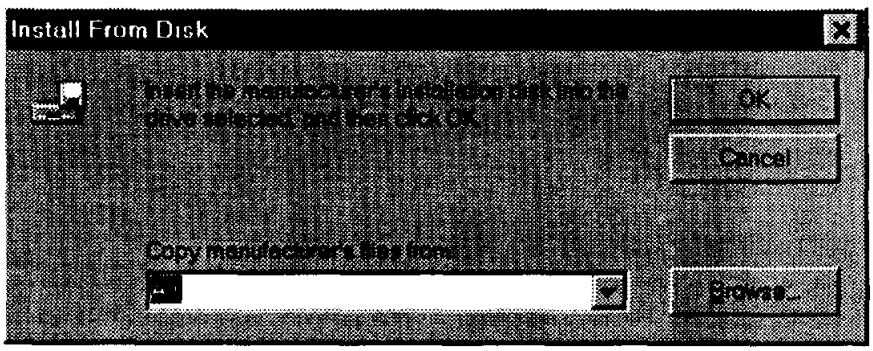
3. Click on **Local Printer,** then **Next.**
Note: You may not see this screen if you are not on a network.



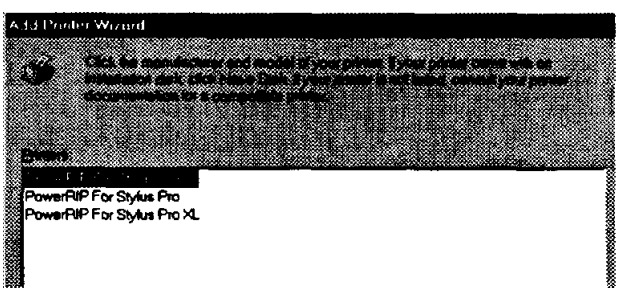
4. Click on **Have Disk.**



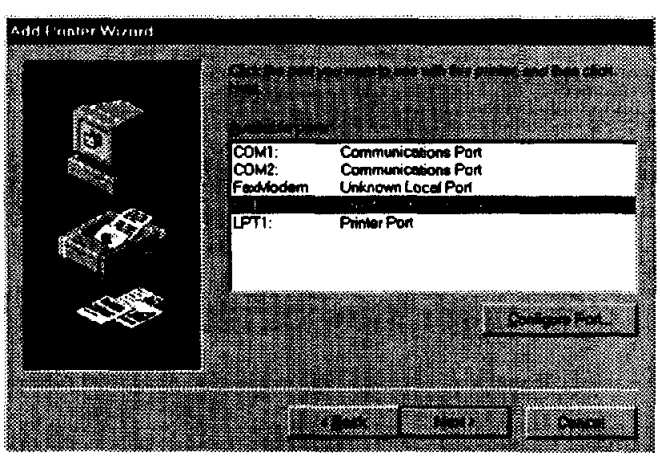
5. Put the PowerRIP Windows 95 Printer Driver disk in drive A or B. If drive B, you must change to that drive designation. Click **OK.** Note: You may need your Windows 95 CD or master diskette #1 0 to install the Windows 95 PostScript drivers.



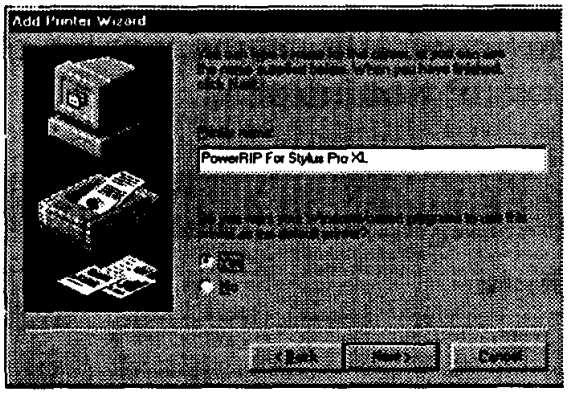
6. Select your printer and click **Next.**



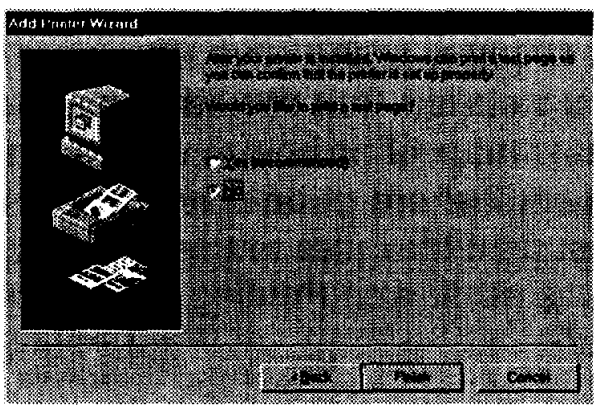
7. Then select print to **"File: Creates a file on disk"** Click **Next.**



8. You may change the printer name if you prefer. Make PowerRIP your default printer and click OK.

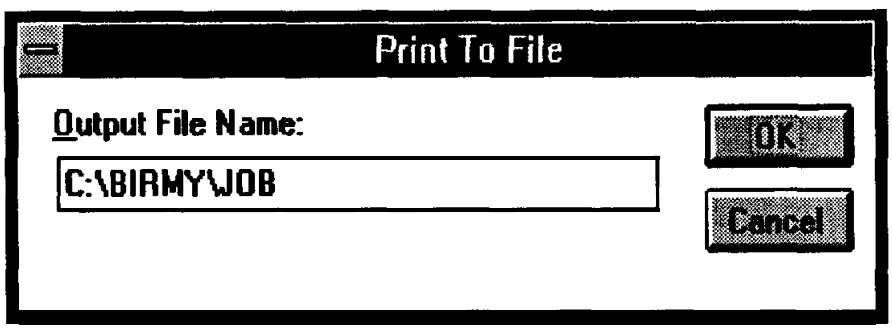


9. **Do not print a test page.** PowerRIP will not print at this stage. After selecting **Finished you** may be asked to install your Windows 95 CD or master diskette # 10 for the Windows Drivers.



10. The program installation is now complete. PowerRIP must be registered before you can use it. Go to the section **Registering your Software.** If you would like to share your printer on a network complete step 12 and the section about printing on a network.

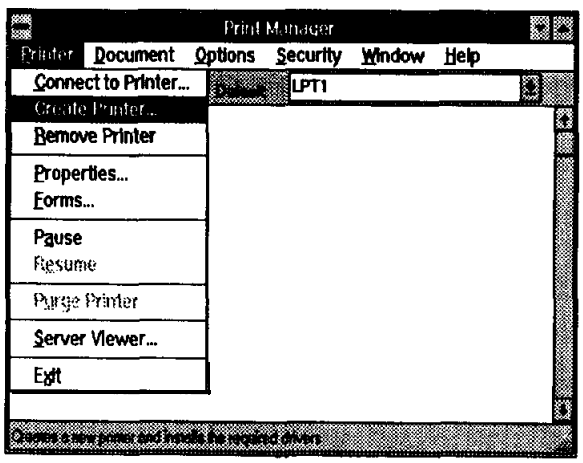
11. When you print from an application it will ask you for a file name. You can use almost any name but you must print to **C:\BIRMY** directory or the drive letter where PowerRIP was installed.



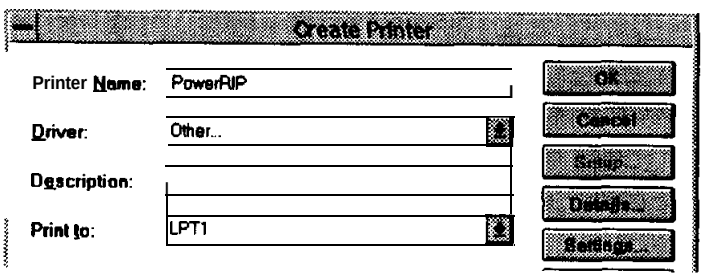
12. If you would like to share your printer on a network, you just have to share on your computer the **C:\BIRMY** directory or the drive letter where PowerRIP is installed. You should refer to your Windows user manual on how to do this. Other users on the network that are given rights to your C:\BIRMY directory just print their files to this directory.
Now go to the section on Printing from Workstations on a Network.

PowerRIP Windows NT 3.5.1 Printer Drivers Installation

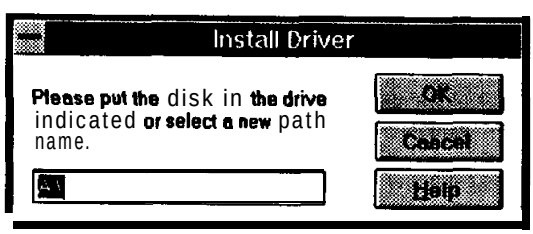
1. Click on **Print Manager** in the Main Folder. Select **Printer** and **Create Printer.**



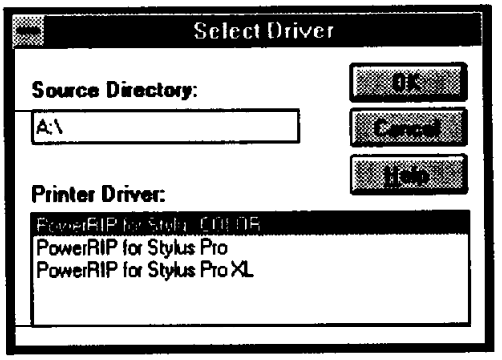
2. Enter PowerRIP under printer name and go to driver and select **Other.**



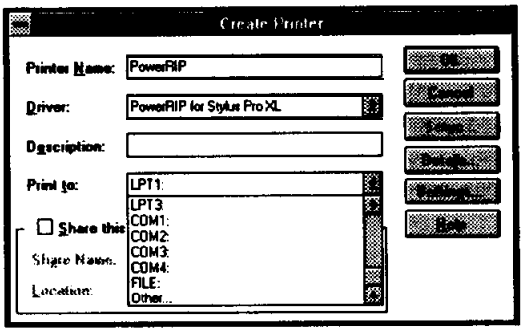
3. You will then be prompted to put the PowerRIP Windows NT drivers disk into drive A. Insert it into drive A or B; if your drive is B.



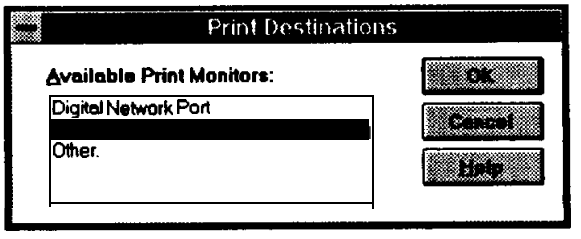
4. Select your printer and click **OK.**



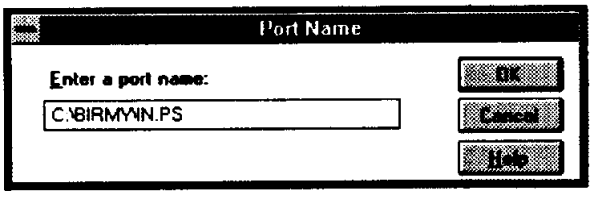
5. **Now go** to **Print to** and select **Other.**



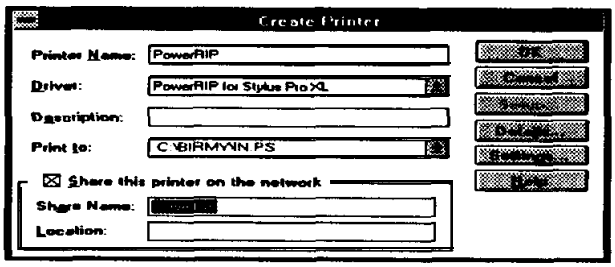
6. Select **Local Port.**



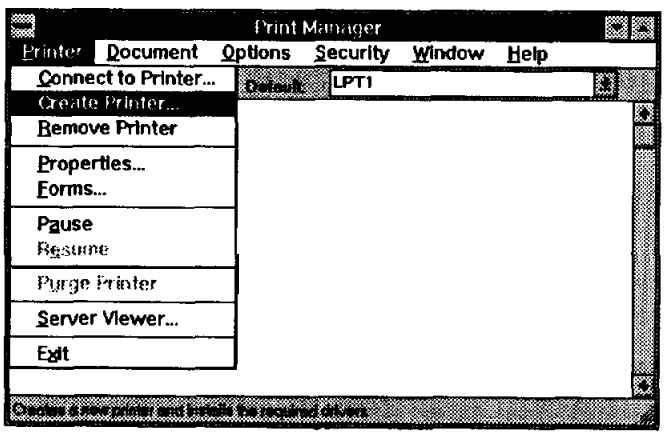
7. Type **C:\BIRMY\IN.PS**
and click **OK.** If your drive is different than C, type that drive letter.



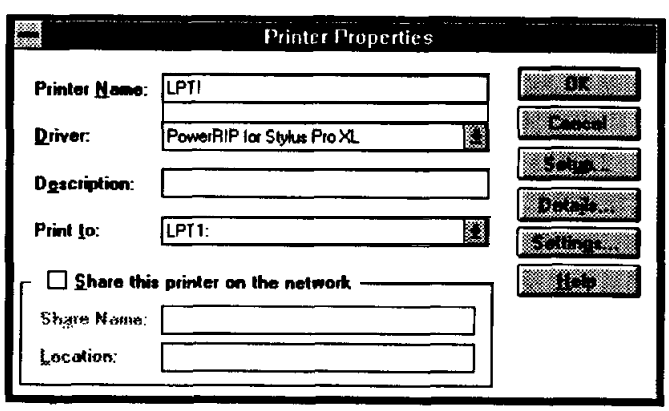
8 If you want to share the printer, select **Share.** Click **OK.** If share is selected then see the section on Printing from Workstations on a Network.



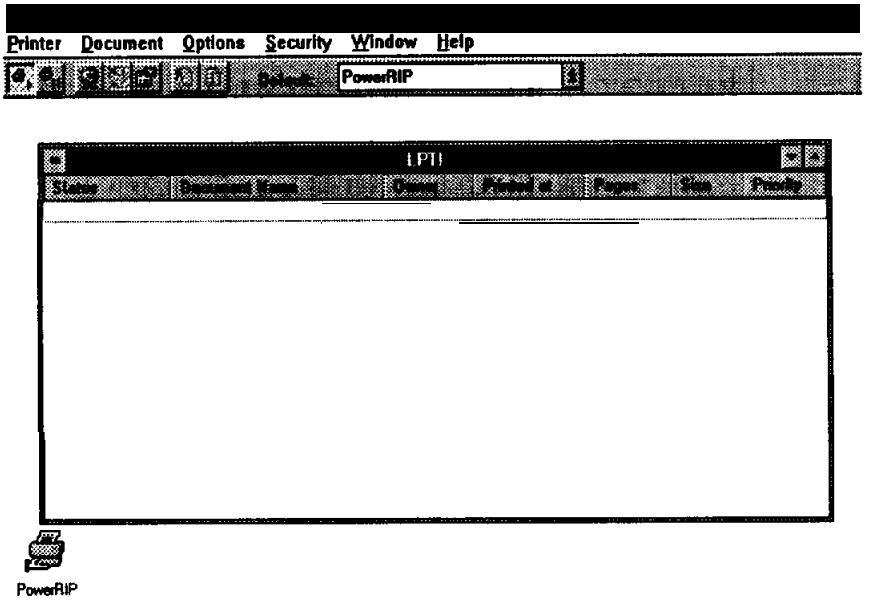
9. Now go back to **Print Manager** and create another printer.



10. Name it **LPT.** Select the PowerRIP driver that is now in the system under printers. Select the **Print to** as **LPT1** port or the LPT port that your EPSON is connected to and click OK. Do not share this printer.



11. This LPT Print queue is where PowerRIP sends the job after it is ripped. Here is where you can cancel, pause, or purge the jobs before they are sent to the printer. Note: PowerRIP sends a small 30 byte file before each print job. This 30 byte file contains information for the printer to setup resolution and other options. This 30 byte file does not print a page.



12. The program installation is now complete. **PowerRIP must be registered before you can use it.** Go to the section **Registering your Software.**

Operating PowerRIP

To operate PowerRIP just click on the PowerRIP icon. PowerRIP will minimize itself at the bottom of the screen.
This is the mode in which PowerRIP runs. If you double click on the Birmy PowerRIP icon at the bottom of the screen it will maximize itself. From this screen you can configure PowerRIP for resolution, microweave, etc. PowerRIP will not pick up the jobs or files to print from in this maximize mode. You must minimize PowerRIP to run automatically.

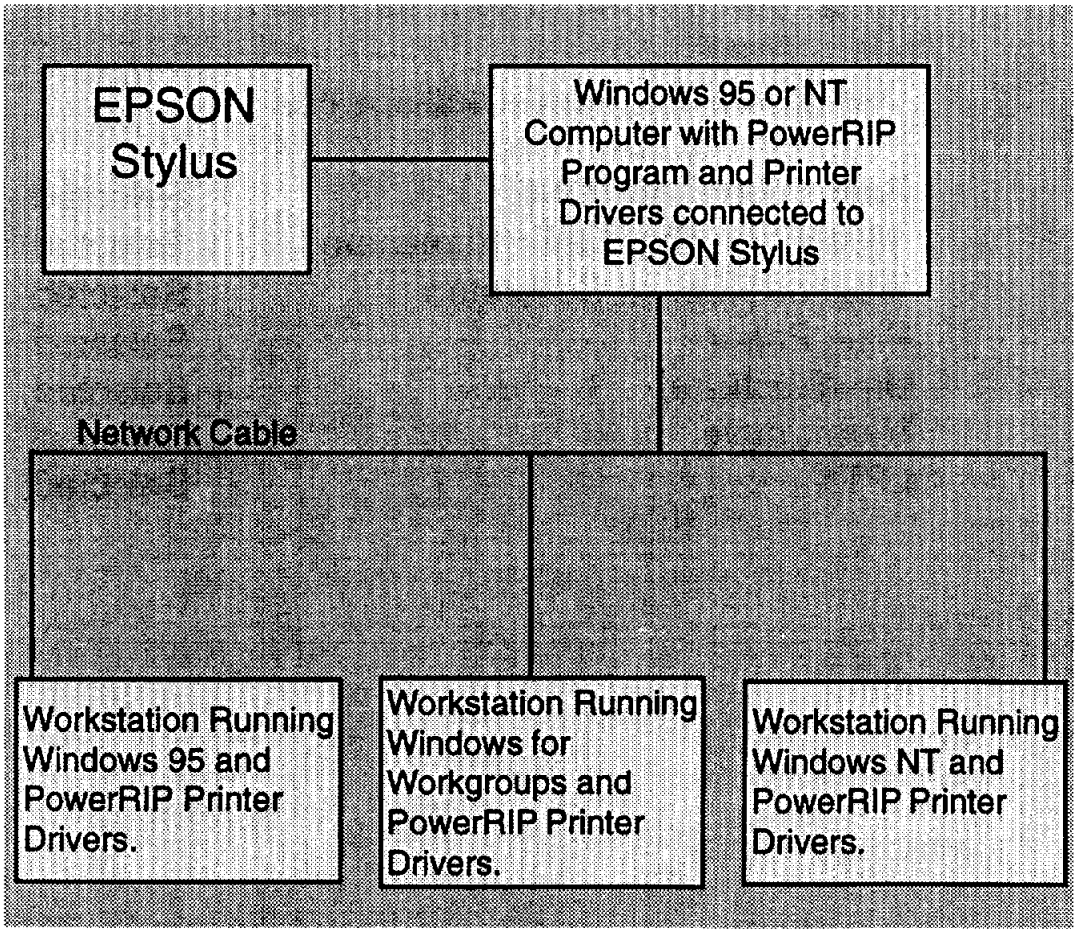
PowerRIP features, like resolution, must be changed from the maximized mode. PowerRIP will ignore resolution request from the applications. See Configuring PowerRIP for more imformation.

The PowerRIP defaults settings are:

Resolution 360 DPI	Selected
Always use Stochastic Screening	Selected
Treat all RGB as Calibrated	Selected
Plain Paper	Selected
Uni-directional	Selected
Microweave	Selected
LPT1	Selected

Printing from Workstations on a Network

After you have installed PowerRIP on the computer connected to the EPSON Stylus, all networked workstations running Windows for Workgroups, Windows 95 or Windows NT can print to PowerRIP providing the printer or directory is shared as shown on the previous pages. The computer running PowerRIP under Windows NT can have application print sharing properties activated as shown on the previous section. If you are running under Windows 95 you need to share the C:\BIRMY directory or the drive where PowerRIP was installed. The workstations then only need to load PowerRIP print drivers and not the PowerRIP program.



Windows NT PowerRIP Setup

On Windows NT Network print sharing with PowerRIP can have only one person print to a queue at a time, so if you want several people to print simultaneously you need to set up different print queues with unique file names and share names. This is done the same way as setting up a regular printer queue.

Set up a print queue as described in the previous section but type: **C:\BIRMY\IN2.PS**
instead of IN.ps in step 7. If your drive is different than C, type that drive letter. This is only at the computer running PowerRIP, workstations will setup to print to a network printer which is this printer when the sharing options is checked.

This will give you two print queues, one that will write a file called IN.ps and one called IN2.ps. You may add additional ports as long as the file and share names are unique.

Workstation Setup for Windows 3.11 for Workgroups, Windows 95 and Windows NT

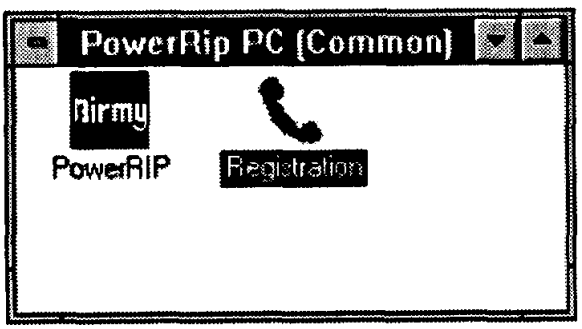
The workstations only need to load the appropriate Windows Drivers. If PowerRIP is running under Windows NT, instead of printing to a Local Printer, select a Network Printer or Connect to a Network printer depending on your version of Windows. If PowerRIP is running under Windows 3.11 for Workgroups or 95, search for the computer that is running PowerRIP and connect to it. Do not run the PowerRIP program on individual computers, only the PowerRIP Windows print drivers.
Please see you Windows documentation for more information or printer and file sharing.

Registering Your Software

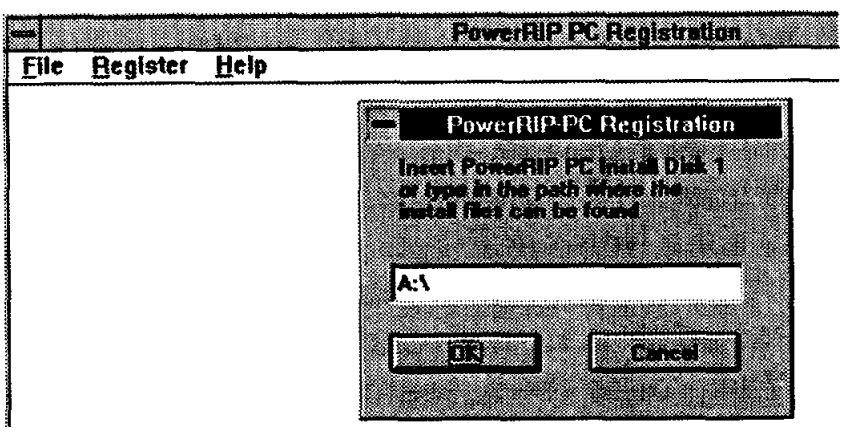
You must register your copy of PowerRIP before you can use it.

Follow these steps.

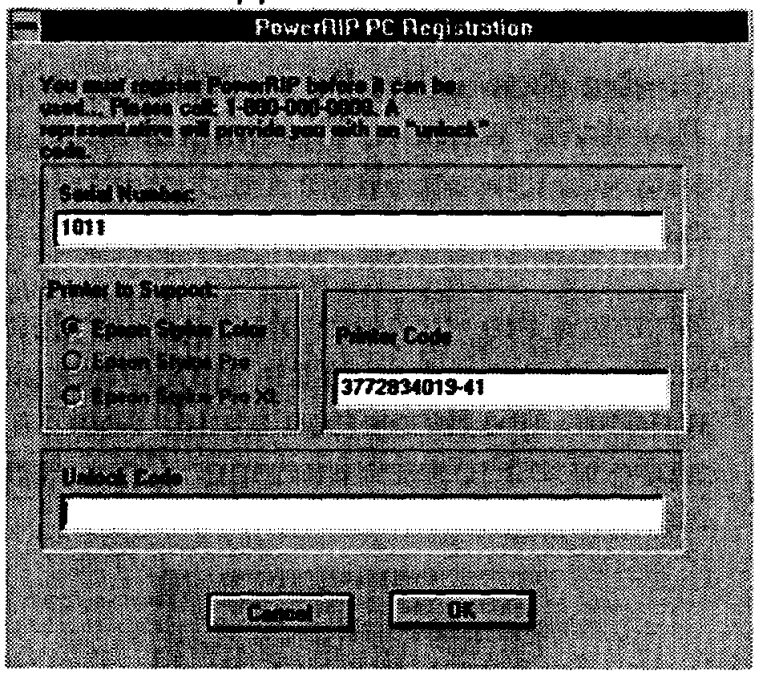
1. Click on the registration icon.



2. When you see the prompt, insert Disk 1 into Drive A or B and click OK.



3. Call the registration number (800) 613-3031. You will need your Serial Number and Printer Code found on the Registration Screen. Do not call this phone number for technical support. Call the numbers listed on page 3 for technical support.



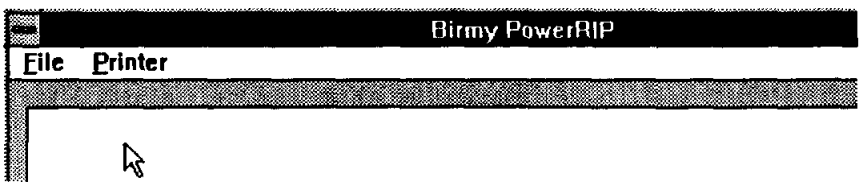
4. When given the unlock code, type it in the Unlock Code box and click OK. Your PowerRIP is now ready to use. See Section 2 for instructions on customizing PowerRIP.

1. If you haven't rebooted your system, and you are running Windows 3.1, do so now. If you are running Windows 95 or Windows NT proceed without rebooting.

2. Double click on the PowerRIP icon in the PowerRIP window. The program will take a few seconds to load. When the cursor returns, the program has loaded.

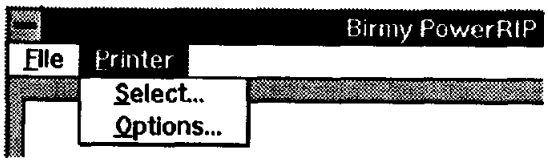
3. Minimize the Program Manager window by clicking on the down button in the upper right side of the window. The Birmy icon should now be visible along with Program Manager. Other icons may also be present.

4. Double click on the Birmy PowerRIP icon. You see the Birmy PowerRIP window shown below, which has two menus, **File** and **Printer.** See the following two sections for descriptions of these options.

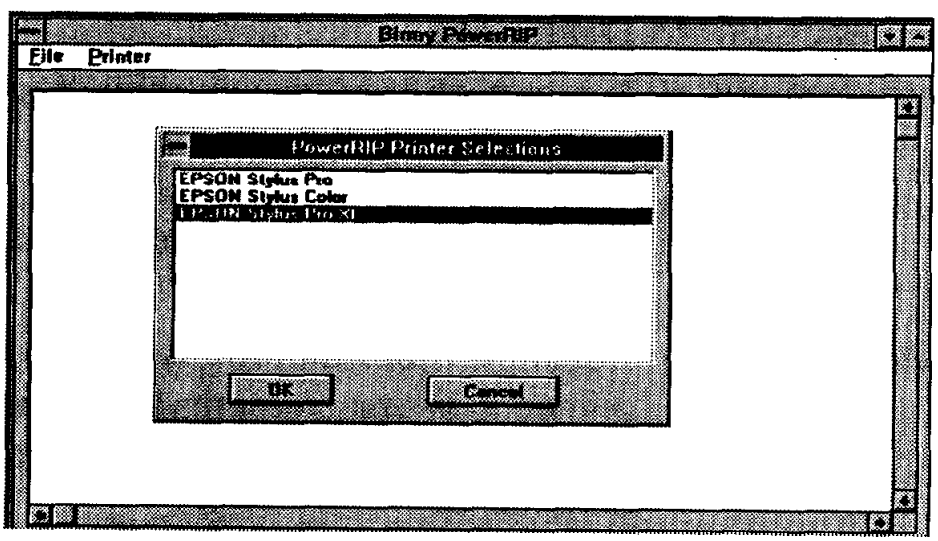


Printer Menu

When you click on Printer, The following pull down menu will appear.

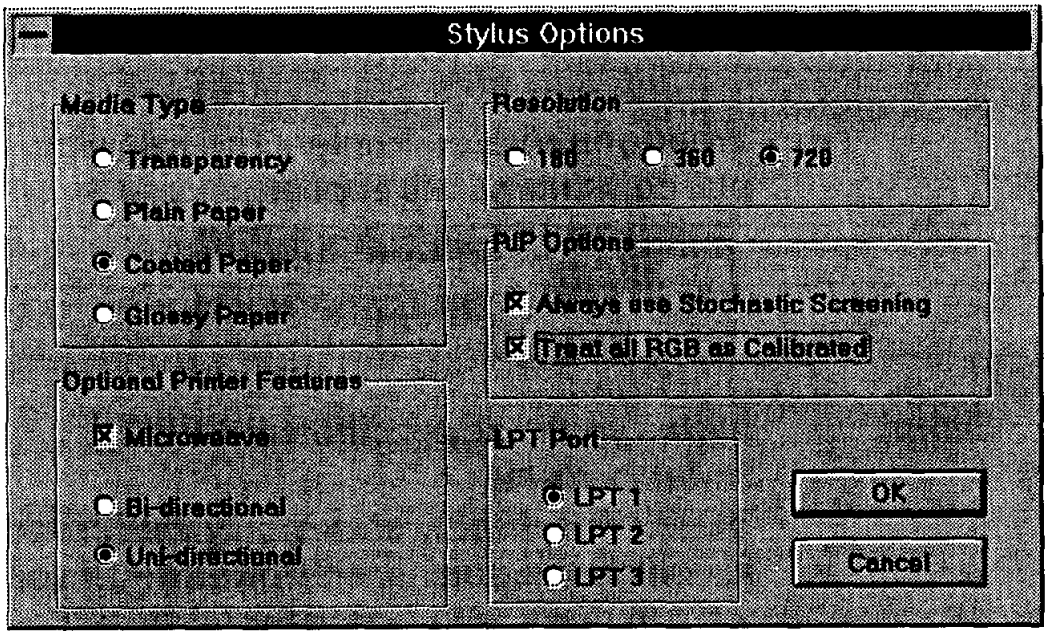


Select Allows you to select different EPSON Stylus printers.
NOTE: The display shows only the printer for which you purchased PowerRIP. If you want to purchase support for additional printers, call Birmy Graphics Corporation at 407-723-2893



Options Allows you to select:

A. Media Type
B. Optional Printer Features
C. Resolution
D. RIP Options
E. LPT Port



Printer Options Definitions:

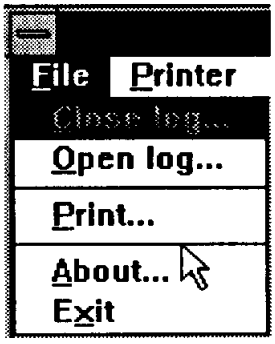
Media Type	Select the paper or other media you are printing on. PowerRIP has color rendering Dictionaries to produce the maximum image quality for the individual Epson special paper stocks.
Microweave	A printing method in which images are printed in finer increments to reduce the possibility of banding (white lines) and produce laser-like images.
Bi-directional	When this option is selected, the printer prints one line from right to left and the next line from left to right. Bi-directional mode is faster but print quality is decreased when it is selected.

Uni-directional	The printer prints right to left on all lines. This mode reduces the possibility of banding (white lines).
Resolution	Resolution is a measure of the amount of detail that can be represented. Resolution of printed images is measured in the number of dots per inch (dpi). The higher the number, the finer the resolution.
Calibrated RGB	Calibrated RGB references the 16 million possible shades of Red, Green and Blue combinations, commonly used in the computer industry, to a specific standard; CIE based ABC. Application Defined utilizes optional third party color calibration software.
Stochastic	Stochastic screening is a random dot pattern as opposed to a fixed screen ruling. **Stochastic** produces more tones and has better detail than fixed screen rulings.
LPT	The LPT port that the printer is connected to.

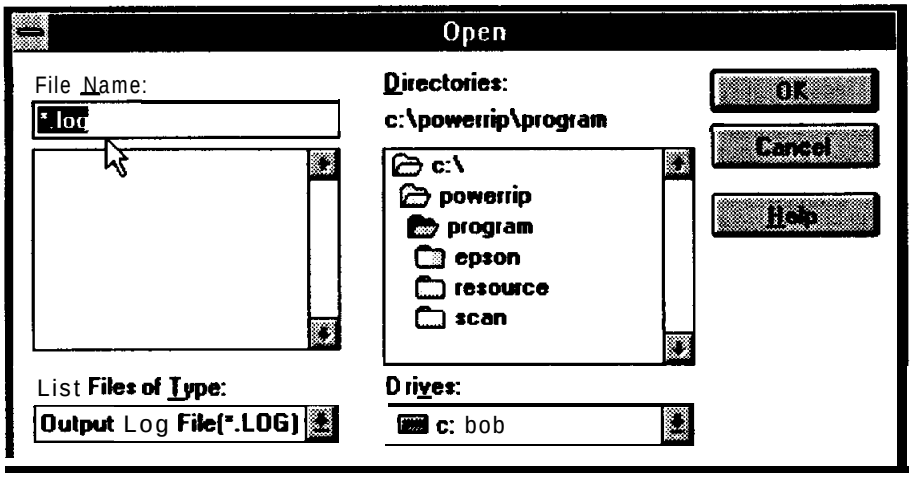
NOTE: For the EPSON Stylus, the **Stochastic Always** feature should be selected.

File Menu

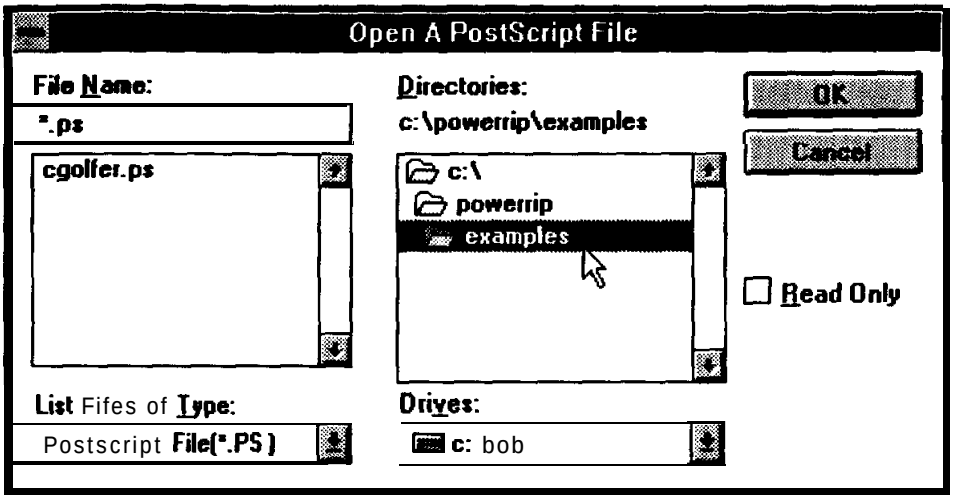
When you click on **File,** you see the following pull-down menu:



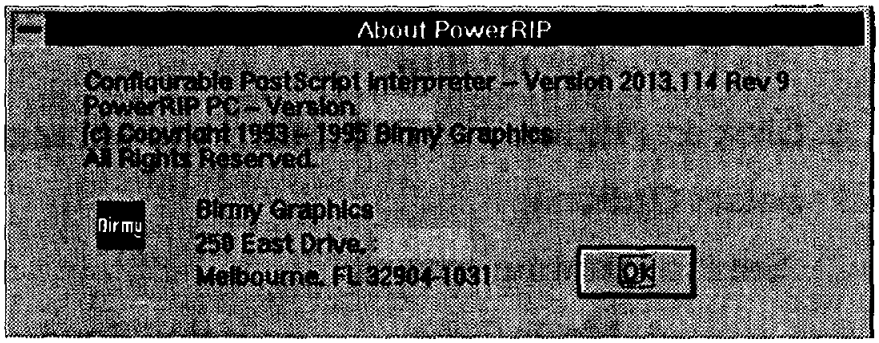
Open log and Close log allows you to keep track of PostScript messages that occur during a print job. When you select **Open,** an open window will appear. In this window, you can select a file name for the log, as well as a drive and a directory.



Print opens a PostScript File box. You have the option of selecting the drive, directory and file name of a PostScript job to print. Also included is a directory called Examples, which contains a job for testing. (See Section 3.)



About gives you information about PowerRIP. The product version and revision should be included on all information sent to Birmy Graphics Corporation with support questions.



Exit quits the program.

Testing PowerRIP

1. Set up your EPSON Stylus printer using the instructions in your EPSON User's Guide.

2. Turn on the computer and start Windows.

3. Turn on your Stylus printer.

4. Double click on the Birmy icon in the PowerRIP window. When the program has finished loading and the cursor returns to the screen, minimize the Program Manager window by clicking on the down arrow in the upper left of the screen.

5. Double click on the Birmy icon. This will maximize the Power-RIP window.

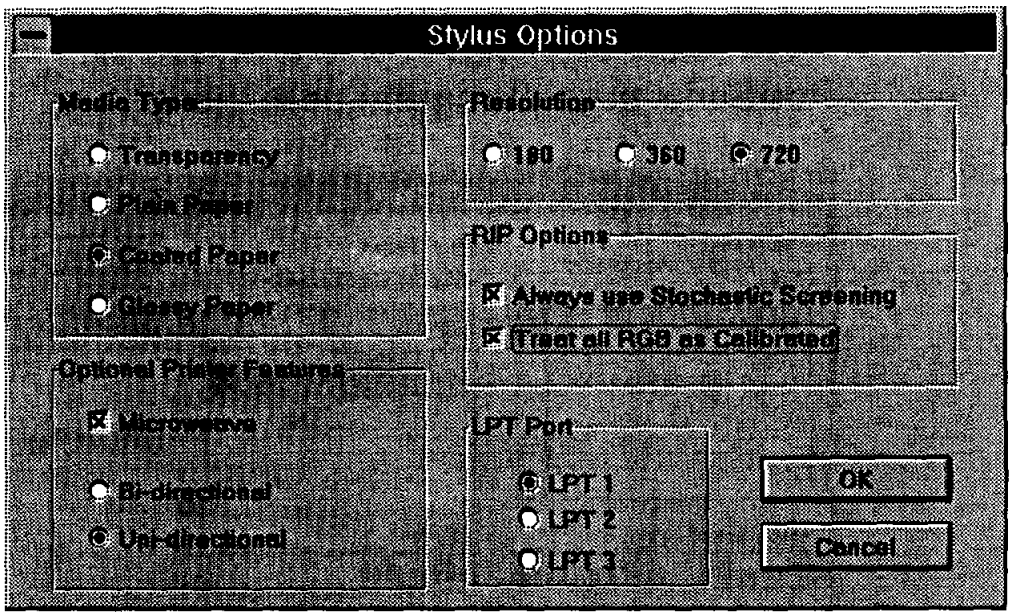
6. Click on **Printer.** The pulldown menu will appear.

7. Select **Options.**

   Set the following options:

   A. Media Type = Coated Paper
   B. Microweave = On
   C. Optional features= Uni-directional
   D. Resolution = **720**
   E. Stochastic = On
   F. RGB Calibrated = On

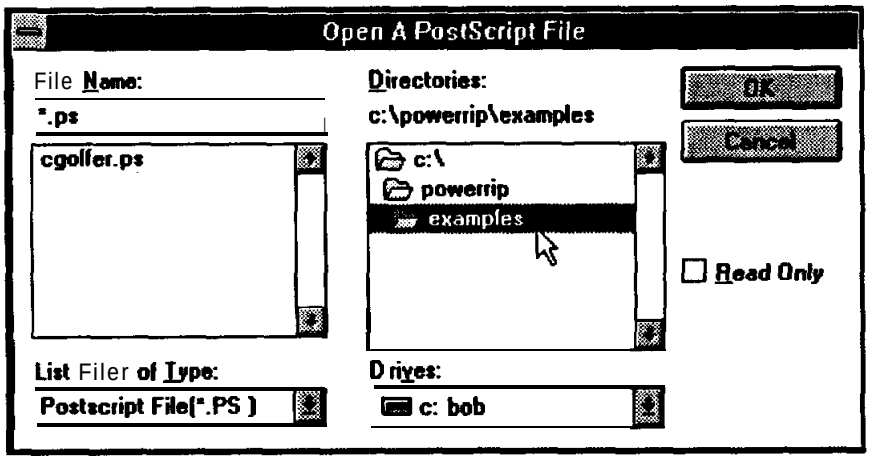
NOTE: If you are using plain or glossy paper, set the media type accordingly.



8. Click **OK.**

9. To open a PostScript file box, click on **File** click on **Print.**

10. In the PostScript File box, click on **PowerRIP.** Then select examples. You should see the PostScript example cgolfer.ps in the left box.



11. Click on **cgolfer.ps,** then click **OK.**

12. The program will now process the PostScript file cgolfer.ps. The program will take a few seconds to a couple of minutes, depending on the speed of your computer and the amount of memory it has. The output will be a golfer drawing in color.

Tips and Obtaining the Best Printing Quality

The Birmy Graphics PowerRIP is a true Adobe Level 2 PostScript Raster Image Processor.

A true Adobe Level 2 PostScript RIP has the ability to use color rendering dictionaries when the RIP is driving a color printer. These color rendering dictionaries are automatically accessed by the Adobe Photoshop program when printing directly to the printer. Images created in Photoshop can be placed in other applications and still access the color rendering dictionaries, if they are saved as LAB.EPS or calibrated RGB.EPS files. RGB.TIF and CMYK.TIF files do not access the color rendering dictionaries automatically if placed in other applications and then printed.

PowerRIP includes a means of automatically converting non-calibrated RGB.TIF into calibrated RGB.TIF with a software switch “Treat all RGB as calibrated”. This switch will convert most RGB color calls into calibrated color space automatically accessing the color rendering dictionary. If for some reason you don’t want to use this feature, you can disabled it simply turning it off.

Windows 95 color profiles are included, These ICM color files allow applications capable of accessing of accessing these files the capability of

adjusting printer colors When using these files the "Treat all RGB as calibrated" option on PowerRIP should not be checked

CMYK files are usually created in a device-dependant color space, where you can adjust items to the particular printing condition of an individual printer rather than accepting the automatic options in a color rendering dictionary

RAM Requirements

PowerRIP RAM requirements are dependent on the complexity of your printed pages. We suggest that if your pages are taking a long time to process that you increase your RAM. PowerRIP will have performance increases with up to 64 MB of RAM. Once full EPSON Stylus printer speed is obtained an increase in RAM will not improve performance.

Quark

If you have the Eficolor profile option, select none.

To obtain high-quality color images, keep the following points in mind:

- Use the manufacturer's inks and recommended paper for your ink jet printer.
- Papers designed for ink jet printers have special coatings to evenly distribute the ink, and are different than uncoated bond papers used in laser printers and copiers.
- Birmy Graphics has balanced the stochastic halftone screening and color technology to work with Epson's inks and recommended papers.

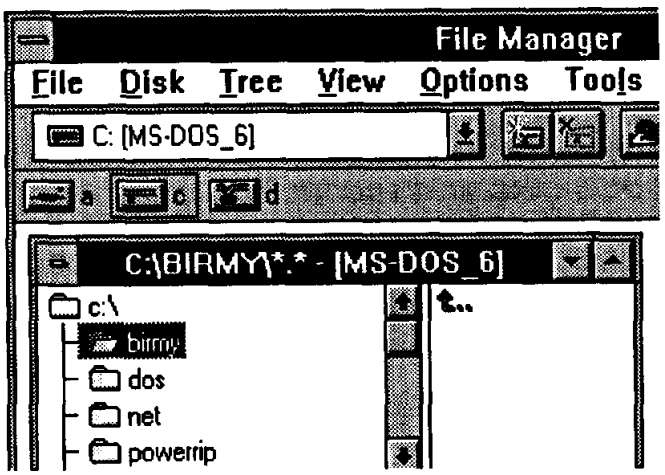
  Stochastic screening is a random dot pattern as opposed to a fixed screen ruling. Stochastic screen produces more tones and has better detail than fixed screen rulings.

Maximum density for color

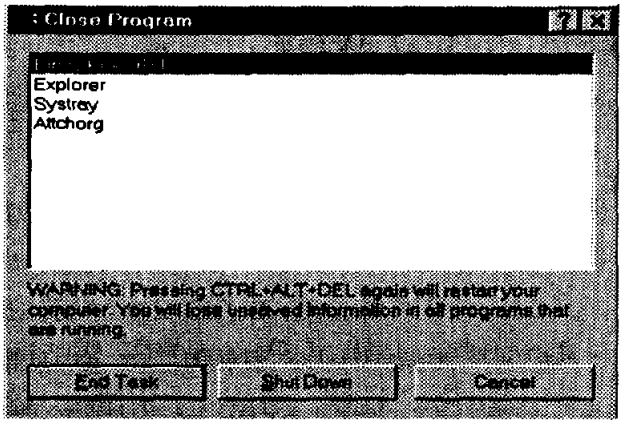
Your PowerRIP has been designed to allow users to print up to 300% maximum color from CMYK files. Exceeding this number will cause problems with excess ink. Many desktop drawing applications set black to 400% by default. A black of 400% wastes ink and is too dense to print well on desktop ink jet printers as well as large commercial offset presses. Most magazine's printing standards, depending on the publication and stock, only allow maximum black within a range of 260% to 285%.

Cancelling a print job.

Windows 3.11: To cancel a print job in Windows 3.1 you must reboot your system. Re-enter Windows and click on the Birmy **Delete Pending Jobs** icon or go to **File Manager** and go to the directory **c:\Birmy** and delete the files in this directory. Now restart PowerRIP.



Windows 95: To cancel in Windows 95, Hold down the Control, Alt, Delete keys to get to the Close Program panel. Select the Birmy PowerRIP task and then select End Task. It will ask you again, **select end task** to confirm your selection. Then go to the Birmy **Delete Pending Jobs** icon and click on it or go to File Manager and go to the directory **c:\Birmy** and delete the files in this directory. Now restart PowerRIP.



Windows NT: To cancel in Windows NT, go to Print Manager. Select the LPT Queue that we created when we loaded the PowerRIP Windows NT Drivers. Then delete the files in this Queue. Then run the Birmy **Delete Pending Jobs** icon by click on it. Now restart PowerRIP.

Also you can double click on the desktop or hold down the Control, Alt, Delete keys to get to the Close Program Panel. Select the PowerRIP task and then select End Task. It will ask you to confirm your selection, click OK. Then run the Birmy **Delete Pending Jobs** icon by clicking on it.

Problem Printer prints out illegible type or characters.

Solution On Windows 3.11 and 95, PowerRIP needs to print to a file. In Print Manager check PowerRIP is set to file and not an LPT port. Also check that PowerRIP is minimized. PowerRIP only scans for files when minimized. On Windows NT make sure printer driver prints to the Birmy directory and not an LPT port. See Printer Driver section for more information.

Problem PowerRIP not registered.

Solution Register PowerRIP by calling the (800) 613-3031 Birmy Fulfillment Center phone number. This number is only for registration.

Problem Wrong fonts or very jagged type.

Solution Most fonts are downloaded with the print job. Sometimes a bitmap image of a font is downloaded. If the page is missing a font, PowerRIP will default the Courier font or print the bitmap image of a font. Check to make sure you have the printer fonts. Also the print heads may need cleaning.

Problem PowerRIP takes a long time before printing starts.

Solution Add more RAM or a faster CPU. The more complex jobs that use a large number of fonts will run faster with more RAM.

Problem	EPS files do not print.
Solution	EPS file are designed to be placed into other documents. They cannot be processed directly by PowerRIP. Place EPS files on a page using an application and print from that application.
Problem	Bitmap images or clip art looks jagged.
Solution	Bitmap images and clip art are processed for a set resolution and size. When enlarged, they look very jagged but when made smaller will look better. EPS files produce better quality.
Problem	Tiffs, simple text files do not print.
Solution	Tiffs and simple text files are designed to be placed into other documents. They can not be processed directly by PowerRIP. Place these files on a page using an application and print from that application.
Problem	White lines on output.
Solution	Screen savers cause the CPU to be interrupted during the printing process. Turn off screen savers.
Problem	PowerRIP does not run from Navigator or other special desktops.
Solution	PowerRIP runs from Windows and may not run from special desktops like Navigator. Click on the Windows icon in Navigator and then on PowerRIP's icon.

Problem	PowerRIP receives a error “Cannot open C:\BIRMY\PRPCTEMP.PS” upon startup.
Solution	Run **Delete Pending Jobs** icon before starting PowerRIP. This will delete and files in the \Birmy directory.
Problem	Printout has misplaced images or type.
Solution	PowerRIP may need more RAM. If you have other applications open, print to the \Birmy directory, close your application, then start or put more RAM in you system.
Problem	Delete Pending Jobs keeps DOS windows stays open after deleting jobs in Windows 95.
Solution	This is defined under Windows 95. To exit dos window automatically you must make the following changes. Go to Settings, Taskbar, Startup Menu Program, Then select Programs, Advanced, Programs, PowerRIP, Delete Pending Jobs. Click on delete pending jobs and select properties. then program and click on “close on exit” and click OK then close.

Glossary

Several terms having special meaning within the context of this manual are listed below:

Application — Applications are considered the programs that run on a computer. We refer to applications in this manual as PageMaker, Photoshop, etc.

Bitmap — Bitmaps are images preprocessed at a fixed resolution for a certain monitor or printer.

CPSI — Configurable PostScript Interpreter. This Adobe Level 2 PostScript interpreter runs on a PC rather than on a hardware peripheral device. PowerRIP uses this interpreter to render a raster image.

CPU — The processor inside the computer. Pentium is faster than 486.

EPS — Ecapsulated PostScript. This is a file type that may contain complex graphics. It is designed as a universal format to include complex graphics in other applications.

Imaging Device — A device capable of printing an image on a physical medium, e.g., a printer, imagesetter, ink jet printer, etc.

Interpreter — A set of software functions to convert PostScript language operators and operands into a raster image. PowerRIP uses the CPSI interpreter.

Network — Ethernet cabling and required software to link computers to each other.

PostScript — An interpretive programming language, developed by Adobe, used to describe the text, graphics, and image content of a document.

Raster Image — A sequential bitmap composing an image. For each image pixel, there is a corresponding device pixel.

Render	The process by which PostScript language operators and operands are interpreted and a raster image is produced.
RAM	Random Access Memory. Almost all PCs ship with 8 megabytes of RAM today, and many with 16 MB as minimum. You can add more RAM to most computers. See your computer dealer for more information.
RIP	Raster Image Processor. An application or device that renders images in raster format for an imaging device.
TIFF	Tagged Image File Format. This is a standard image file format consisting of labeled fields.